

Ser. No. 10/791,978
Amtd. Dated November 10, 2006
Reply to communication of September 7, 2006

PP030045
Customer No. 24498

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims

1. (previously amended) A radiation diversity antenna comprising a radiating element of the slot-line type coupled electromagnetically to a feed line, wherein the radiating element consists of arms in a tree structure, each arm having a length equal to $k\lambda_s/2$ where k is an integer and λ_s is the guided wavelength in the slot-line constituting the arm, at least one of the arms comprising a switching means positioned in the slot-line constituting the said arm in such a way as to control the coupling between the arm and the feed line as a function of a command.

2. (original) The antenna of claim 1, wherein each arm comprises a switching means.

3. (original) The antenna of claim 1, wherein the switching means is positioned in an open-circuit zone of the slot.

4. (original) The antenna of claim 2, wherein the switching means is positioned in an open-circuit zone of the slot.

5. (original) The antenna of claim 1, wherein the switching means consists of a diode, a transistor arranged as a diode or an MEMS (Micro Electro Mechanical System).

6. (original) The antenna of claim 1, wherein each arm has a length which is delimited by an insert positioned in a short-circuit plane.

7. (original) The antenna of claim 5, wherein the insert is placed at the level of the junctions between arms.

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8. (original) The antenna of claim 1, wherein the tree structure has an H or Y or one which is associated with these shapes.

9. (original) The antenna of claim 1, wherein the antenna is produced by microstrip technology or by coplanar technology.

10. (original) The antenna of claim 1, wherein the length of the slot-lines is chosen so as to produce frequency diversity.

11-20 (cancelled)